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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,975	05/23/2006	Hiroichi Ishikawa	09792909-6686	1095
26263 SNR DENTON	7590 05/10/201 US LLP	EXAMINER		
P.O. BOX 0610		SMITH, COURTNEY L		
CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER
			2835	
			MAIL DATE	DELIVERY MODE
			05/10/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
Office Astion Commence	10/595,975	ISHIKAWA ET AL.		
Office Action Summary	Examiner	Art Unit		
	COURTNEY SMITH	2835		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 23 F  2a) ☐ This action is FINAL. 2b) ☐ This  3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. Ince except for formal matters, pro			
Disposition of Claims				
<ul> <li>4) ☐ Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdra</li> <li>5) ☐ Claim(s) 1-24 is/are allowed.</li> <li>6) ☐ Claim(s) is/are rejected.</li> <li>7) ☐ Claim(s) 25 is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 23 May 2006 is/are: a)  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2.	D⊠ accepted or b) □ objected to be drawing(s) be held in abeyance. See stion is required if the drawing(s) is objection.	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1)  Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)		
2) Notice of Preferences Cried (PTO-592)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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#### **DETAILED ACTION**

# Claim Objections

1. Claim 25, are objected to because of the following informalities: Regarding Claim 25; the method steps do not assert a control means so as to accomplish the vibration and/or reversed phases. Appropriate correction is required. Note: the claim is otherwise deemed allowable.

## Allowable Subject Matter

2. Claim(s) 1-24 are allowed.

The following is an examiner's statement of reasons for allowance: Regarding Claim 1; A gas ejector including at least one vibrator, comprising: a plurality of ejecting sections arranged to eject a pulsating gas flow such that sound waves generated by the vibration of an upper portion of a vibrator and sound waves generated by a lower portion of the vibrator have the same wave form but reversed phases such that the sound waves weaken each other upon ejection from the ejector; and a first control unit which controls the frequency of the vibration of the vibrator. Regarding Claim 24; An electronic device including at least one heater and at least one vibrator, comprising: a plurality of ejecting sections arranged to eject a pulsating gas flow such that sound waves generated by the vibration of an upper portion of a vibrator and sound waves generated by a lower portion of [[a]] the vibrator have the same wave form but reversed phases such that the sound waves weaken each other upon ejection from the ejector; and

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control means for controlling the frequency of the vibration of the vibrator. Claim(s) 9, 15, and 19 are allowed (as indicated in the previous rejection). Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Response to Arguments

3. Applicant's arguments filed 2/23/11 have been fully considered and are persuasive. Claims 1-24 are hereby allowed; assuming the English translations of foreign priority documents are submitted and fully supports the instant application.

Regarding method claim 25; and objection has been raised; whereas the method steps shall assert a control means in association to the vibrator so as to accomplish the vibration and/or reversed phases.

#### Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to COURTNEY SMITH whose telephone number is (571)272-9094. The examiner can normally be reached on M-F 7:30 am-5 pm (1st Fri. off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayprakash Gandhi can be reached on 571-272-3740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/COURTNEY SMITH/ Examiner, Art Unit 2835